SEQUENCE LISTING

<110> St. George-Hyslop, Peter H.
      Fraser, Paul E.

<120> Proteins Related to Neuronal
      Regeneration and Uses Thereof

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Val Met Thr Ile Leu Leu Val Val Leu Tyr Lys Tyr Arg Cys Tyr Lys
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Val Ile His Ala Trp Leu Ile Ile Ser Ser Leu Leu Leu Leu Phe Phe
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Phe Ser Phe Ile Tyr Leu Gly Glu Val Phe Lys Thr Tyr Asn Val Ala
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Val Asp Tyr Ile Thr Val Ala Leu Leu Ile Trp Asn Phe Gly Val Val
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Gly Met Ile Ser Ile His Trp Lys Gly Pro Leu Arg Leu Gln Gln Ala
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Tyr Leu Ile Met Ile Ser Ala Leu Met Ala Leu Val Phe Ile Lys Tyr
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Leu Pro Glu Trp Thr Ala Trp Leu Ile Leu Ala Val Ile Ser Val Tyr

1

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Gly Leu Cys Leu Thr Leu Leu Leu Leu Ala Ile Phe Lys Lys Ala Leu
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2

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3

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4

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Pro Gly Leu Asn Thr Ser Asn Gly Asp Gly Ser Glu Thr Glu Thr Thr
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Leu Thr Arg Glu Leu Glu Ala Glu Arg Gln Ile Val Ala Ser Gln Leu
65                  70                  75                  80
Glu Arg Cys Lys Leu Gly Ser Glu Thr Gly Ser Met Ser Ser Met Ser
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Ser Ala Glu Glu Gln Phe Gln Trp Gln Ser Gln Asp Gly Gln Lys Asp
                100                 105                 110
Ile Glu Asp Glu Leu Thr Thr Gly Leu Glu Leu Val Asp Ser Cys Ile
            115                 120                 125
Arg Ser Leu Gln Glu Ser Gly Ile Leu Asp Pro Gln Asp Tyr Ser Thr
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Lys Pro Glu Gly Ser Phe Gln Tyr Pro Ala Ser Tyr His Ser Asn Gln
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5

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Ser Thr Leu Pro Ala Pro Pro Arg Gly Gly Ser Pro Leu Ala Ala Pro
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Gln Gly Gly Ser Pro Thr Lys Leu Gln Arg Gly Gly Ser Ala Pro Glu
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Ser Arg Leu Ala Lys Ser Tyr Ser Thr Ser Ser Pro Ile Asn Ile Val
305   310   315   320

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Val Gln Ser Thr Ile Ser Ser Ser Pro Ile His Gln Leu Ser Ser Thr
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Glu His His Ile Asp Pro Ile Tyr Glu Asp Arg Val Tyr Gln Lys Pro
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His Gln Phe Pro Ser Val Gln Ser Asn Ala Ala Ala Tyr Leu Gln His
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Leu Cys Phe Gly Asp Asn Lys Ile Lys Ala Glu Ile Arg Arg Gln Gly
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6

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Ile Ser Lys Ser Lys Gly Asp Lys His Ser Pro Lys Val Val Lys Ala
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7

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His Asn Gln Val Ser Ala Gln Pro Val Pro Gln Glu Pro Ser Arg Lys
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8

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9

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1               5                   10                  15
Val Pro Asp Gln Pro Pro Ser Ala Ser Glu Lys Asn Ser Ser Leu Ser
                20              25              30
Pro Gly Leu Asn Thr Ser Asn Gly Asp Gly Ser Glu Thr Glu Thr Thr
            35              40              45
Ser Ala Ile Leu Ala Ser Val Lys Glu Gln Glu Leu Gln Phe Glu Arg
    50              55              60
Leu Thr Arg Glu Leu Glu Ala Glu Arg Gln Ile Val Ala Ser Gln Leu
65              70              75              80
Glu Arg Cys Lys Leu Gly Ser Glu Thr Gly Ser Met Ser Ser Ile Ser
                85              90              95
Ser Ala Gly Glu Gln Phe His Trp Gln Thr Gln Asp Gly Gln Lys Asp
            100             105             110
Ile Glu Asp Glu Leu Thr Thr Gly Leu Glu Leu Val Asp Ser Cys Ile
            115             120             125
Arg Ser Leu Gln Glu Ser Gly Ile Leu Asp Pro Gln Asp Tyr Ser Thr
    130             135             140
Ser Glu Arg Pro Ser Leu Leu Ser Gln Ser Ala Leu Gln Leu Asn Ser
145             150             155             160
Lys Pro Glu Gly Ser Phe Gln Tyr Pro Ala Ser Tyr His Ser Asn Gln
                165             170             175
Thr Leu Ala Leu Gly Asp Thr Ala Pro Ser Gln Leu Pro Ala Arg Ser
            180             185             190
Thr Gln Ala Arg Ala Ala Gly Gln Ser Phe Ser Gln Gly Thr Thr Gly
            195             200             205
Arg Ala Gly His Leu Ala Gly Ser Glu Pro Ala Pro Pro Pro Pro Pro
210             215             220
Pro Arg Glu Pro Phe Ala Pro Ser Leu Gly Ser Ala Phe His Leu Pro
225             230             235             240
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10

Asp Ala Pro Pro Ala Ala Ala Ala Leu Tyr Tyr Ser Ser Ser Thr Leu
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Pro Ala Pro Pro Arg Gly Gly Ser Pro Leu Thr Thr Thr Gln Gly Gly
            260   265   270
Ser Pro Thr Lys Leu Gln Arg Gly Gly Ser Ala Pro Glu Gly Ala Ala
        275   280   285
Tyr Ala Ala Pro Arg Gly Ser Ser Pro Lys Gln Ser Pro Ser Arg Leu
    290   295   300
Ala Lys Ser Tyr Ser Thr Ser Ser Pro Ile Asn Ile Val Val Ser Ser
305   310   315   320
Ala Gly Leu Ser Pro Ile Arg Val Thr Ser Pro Pro Thr Val Gln Ser
                325   330   335
Thr Ile Ser Ser Ser Pro Ile His Gln Leu Ser Ser Thr Ile Gly Thr
            340   345   350
Tyr Ala Thr Leu Ser Pro Thr Lys Arg Leu Val His Ala Ser Glu Gln
    355   360   365
Tyr Ser Lys His Ser Gln Glu Leu Tyr Ala Thr Ala Thr Leu Gln Arg
    370   375   380
Pro Gly Ser Leu Ala Ala Gly Ser Arg Ala Ser Tyr Ser Ser Gln His
385   390   395   400
Gly His Leu Ala Pro Glu Leu Arg Ala Leu Gln Ser Pro Glu His His
                405   410   415
Ile Asp Pro Ile Tyr Glu Asp Arg Val Tyr Gln Lys Pro Pro Met Arg
            420   425   430
Ser Leu Ser Gln Ser Gln Gly Asp Pro Leu Pro Pro Ala His Thr Gly
        435   440   445
Thr Phe Arg Thr Ser Thr Ala Pro Ser Ser Pro Gly Val Asp Ser Val
    450   455   460
Pro Leu Gln Arg Thr Gly Ser Gln His Gly Pro Gln Asn Ala Ala Ala
465   470   475   480
Ala Thr Phe Gln Arg Ala Ser Tyr Ala Ala Gly Pro Ala Ser Asn Tyr
                485   490   495
Ala Asp Pro Tyr Arg Gln Leu Gln Tyr Cys Ala Ser Val Asp Ser Pro
        500   505   510
Tyr Ser Lys Ser Gly Pro Ala Leu Pro Pro Glu Gly Thr Leu Ala Arg
    515   520   525
Ser Pro Ser Ile Asp Ser Ile Gln Lys Asp Pro Arg Glu Phe Gly Trp
    530   535   540
Arg Asp Pro Glu Leu Pro Glu Val Ile Gln Met Leu Gln His Gln Phe
545   550   555   560
Pro Ser Val Gln Ser Asn Ala Ala Ala Tyr Leu Gln His Leu Cys Phe
                565   570   575
Gly Asp Asn Lys Ile Lys Ala Glu Ile Arg Arg Gln Gly Gly Ile Gln
            580   585   590
Leu Leu Val Asp Leu Leu Asp His Arg Met Thr Glu Val His Arg Ser
            595   600   605
Ala Cys Gly Ala Leu Arg Asn Leu Val Tyr Gly Lys Ala Asn Asp Asp
    610   615   620
Asn Lys Ile Ala Leu Lys Asn Cys Gly Gly Ile Pro Ala Leu Val Arg
625   630   635   640
Leu Leu Arg Lys Thr Thr Asp Leu Glu Ile Arg Glu Leu Val Thr Gly
                645   650   655

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Val Leu Trp Asn Leu Ser Ser Cys Asp Ala Leu Lys Met Pro Ile Ile
                660   665   670

Gln Asp Ala Leu Ala Val Leu Thr Asn Ala Val Ile Ile Pro His Ser
        675   680   685

Gly Trp Glu Asn Ser Pro Leu Gln Asp Asp Arg Lys Ile Gln Leu His
    690   695   700

Ser Ser Gln Val Leu Arg Asn Ala Thr Gly Cys Leu Arg Asn Val Ser
705   710   715   720

Ser Ala Gly Glu Glu Ala Arg Arg Arg Met Arg Glu Cys Asp Gly Leu
            725   730   735

Thr Asp Ala Leu Leu Tyr Val Ile Gln Ser Ala Leu Gly Ser Ser Glu
            740   745   750

Ile Asp Ser Lys Thr Val Glu Asn Cys Val Cys Ile Leu Arg Asn Leu
            755   760   765

Ser Tyr Arg Leu Ala Ala Glu Thr Ser Gln Gly Gln His Met Gly Thr
770   775   780

Asp Glu Leu Asp Gly Leu Leu Cys Gly Glu Thr Asn Gly Lys Asp Thr
785   790   795   800

Glu Ser Ser Gly Cys Trp Gly Lys Lys Lys Lys Lys Lys Ser Gln
            805   810   815

Asp Gln Trp Asp Gly Val Gly Pro Leu Pro Asp Cys Ala Glu Pro Pro
            820   825   830

Lys Gly Ile Gln Met Leu Trp His Pro Ser Ile Val Lys Pro Tyr Leu
            835   840   845

Thr Leu Leu Ser Glu Cys Ser Asn Pro Asp Thr Leu Glu Gly Ala Ala
    850   855   860

Gly Ala Leu Gln Asn Leu Ala Ala Gly Ser Trp Lys Gly Trp Ala Glu
865   870   875   880

Asp Val Ala Gly Met Ala Tyr Ala Leu Arg Ser Leu Pro Glu Gly Ala
            885   890   895

Pro Cys Leu Pro Gln Trp Ser Val Tyr Ile Arg Ala Ala Val Arg Lys
        900   905   910

Glu Lys Gly Leu Pro Ile Leu Val Glu Leu Leu Arg Ile Asp Asn Asp
        915   920   925

Arg Val Val Cys Ala Val Ala Thr Ala Leu Arg Asn Met Ala Leu Asp
    930   935   940

Val Arg Asn Lys Glu Leu Ile Gly Lys Tyr Ala Met Arg Asp Leu Val
945   950   955   960

His Arg Leu Pro Gly Gly Asn Asn Ser Asn Asn Ser Gly Ser Lys Ala
            965   970   975

Met Ser Asp Asp Thr Val Thr Ala Val Cys Cys Thr Leu His Glu Val
            980   985   990

Ile Thr Lys Asn Met Glu Asn Ala Lys Ala Leu Arg Asp Ala Gly Gly
        995   1000   1005

Ile Glu Lys Leu Val Gly Ile Ser Lys Ser Lys Gly Asp Lys His Ser
    1010   1015   1020

Pro Lys Val Val Lys Ala Ala Ser Gln Val Leu Asn Ser Met Trp Gln
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Tyr Arg Asp Leu Arg Ser Leu Tyr Lys Lys Asp Gly Trp Ser Gln Tyr
            1045   1050   1055

His Phe Val Ala Ser Ser Ser Thr Ile Glu Arg Asp Arg Gln Arg Pro
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Tyr Ser Ser Ser Arg Thr Pro Ser Ile Ser Pro Val Arg Val Ser Pro
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Asn Asn Arg Ser Ala Ser Ala Pro Ala Ser Pro Arg Glu Met Ile Ser
        1090            1095                1100
Leu Lys Glu Arg Lys Thr Asp Tyr Glu Ser Ala Gly Asn Asn Ala Thr
1105                1110                1115                112
Tyr His Gly Thr Lys Gly Glu His Thr Ser Arg Lys Asp Thr Met Thr
                1125                1130                1135
Ala Gln Asn Thr Gly Val Ser Thr Leu Tyr Arg Asn Ser Tyr Gly Ala
                1140                1145                1150
Pro Ala Glu Asp Ile Lys Gln Asn Gln Val Ser Thr Gln Pro Val Pro
            1155                1160                1165
Gln Glu Pro Ser Arg Lys Asp Tyr Glu Thr Tyr Gln Pro Phe Pro Asn
        1170                1175                1180
Ser Thr Arg Asn Tyr Asp Glu Ser Phe Phe Glu Asp Gln Val His His
1185                1190                1195                120
Arg Pro Pro Ala Ser Glu Tyr Thr Met His Leu Gly Leu Lys Ser Thr
                1205                1210                1215
Gly Asn Tyr Val Asp Phe Tyr Ser Ala Ala Arg Pro Tyr Ser Glu Leu
            1220                1225                1230
Asn Tyr Glu Thr Ser His Tyr Pro Ala Ser Pro Asp Ser Trp Val
        1235                1240                1245
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